

Abstract of the Disclosure

The present invention describes a protein having glucosyltransferase activity. This protein is derived from lactobacilli, which are food-grade microorganisms with the Generally Recognized As Safe (GRAS) status. The protein produces a glucan with a unique structure having 4-linked, 6-linked and 4,6-linked anhydroglucose units or in the presence of suitable acceptors, oligosaccharides. According to the invention lactobacilli capable of producing this glucan using the novel glucosyltransferase can be used as a probiotic or symbiotic.

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